

FILE NOTATIONS

Entered in NID File

Entered On S R Sheet

Location Map Pinned

Card Indexed

IWR for State or Fee Land

Checked by Chief \_\_\_\_\_

Copy NID to Field Office \_\_\_\_\_

Approval Letter \_\_\_\_\_

Disapproval Letter \_\_\_\_\_

COMPLETION DATA: 10-13-77

Date Well Completed ~~10-20-77~~

Location Inspected \_\_\_\_\_

OW \_\_\_\_\_ WW \_\_\_\_\_ TA \_\_\_\_\_

Bond released \_\_\_\_\_

GW \_\_\_\_\_ OS \_\_\_\_\_ PA  Dry

State of Fee Land \_\_\_\_\_

LOGS FILED

Driller's Log \_\_\_\_\_

Electric Logs (No. ) \_\_\_\_\_

E \_\_\_\_\_ I \_\_\_\_\_ E-I \_\_\_\_\_ GR \_\_\_\_\_ GR-N \_\_\_\_\_ Micro \_\_\_\_\_

Lat \_\_\_\_\_ Mi-L \_\_\_\_\_ Sonic \_\_\_\_\_ Others \_\_\_\_\_

2-19-92  
JH

*Utah State*

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL       DEEPEN       PLUG BACK

b. TYPE OF WELL  
 OIL WELL       GAS WELL       OTHER       SINGLE ZONE       MULTIPLE ZONE

2. NAME OF OPERATOR  
 J. Hyrum Moore

3. ADDRESS OF OPERATOR  
 314 Gulf Bldg., Midland, Texas 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
 At surface  
 892' from E-line & 1575' from N-line  
 At proposed prod. zone SE, NE, Sec. 2, T. 24 S., R. 4 E., S. L. M.  
 (H.E.S. No. 180)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 16 miles SW. of Emery, Utah X

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE  
 460

17. NO. OF ACRES ASSIGNED TO THIS WELL  
 160

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
 no near wells

19. PROPOSED DEPTH  
 3500'

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, ET, GR, etc.)  
 7261' grd.; 7282' K.B.

22. APPROX. DATE WORK WILL START\*  
 June 30, 1977

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/2"	8-5/8"	24.00#	300'	125 sks--returns to surface
7-7/8"	5 1/2"	14.50#	To production	Cemented to above top of Ferron

It is planned to drill a well at the above location to test the natural gas production possibilities of the Ferron, Dakota, and Cedar Mountain formations. About 33' of surface casing will be set and cemented with returns to the surface. This should seal off the near surface waters. The well will then be drilled with rotary tools using air for circulation. In the event copious quantities of water are encountered, circulation will be converted to mud. A casing head will be installed on the top of the surface casing with a blowout preventer and rotating head on top of the casing head, for well control equipment. Fill and kill lines will be connected below the blind rams of the BOP. (See attached diagram). It is expected that the top of the Ferron should be encountered at about 1550'; the top of the Dakota at 2800'; the top of the Cedar Mountain at 2930'; and the top of the Morrison at 3350'. In the event of commercial production, 5 1/2" casing (14.50#) will be run and set thru the pay zones, and cemented with enough cement to bring the top of the cement above the top of the Ferron. The potential production zones will then be perforated, broken down, and fracture-treated, if necessary.

Note: The Utah State oil and gas division is hereby requested to make an exception to the C-3 spacing rule because of topographic and Forest Service restrictions, & irregular section.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED *H. Don Grigley* TITLE Cons. Geol. DATE June 10, 1977

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL  DEEPEN  PLUG BACK

b. TYPE OF WELL  
 OIL WELL  GAS WELL  OTHER  SINGLE ZONE  MULTIPLE ZONE

2. NAME OF OPERATOR  
 J. Hyrum Moore

3. ADDRESS OF OPERATOR  
 314 Gulf Bldg., Midland, Texas 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface 858' (1533') (1458')  
 892' from E-line & 1575' from N-line  
 At proposed prod. zone SE, NE, Sec. 2 T. 24 S., R. 4 E., S.L.M.  
 (H.E.S. No. 180)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 16 miles SW. of Emery, Utah X

16. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. no near wells

19. PROPOSED DEPTH 3500'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 7261' grd.; 7272' K.B.

5. LEASE DESIGNATION AND SERIAL NO.  
 U-16115

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
 Federal

9. WELL NO.  
 Corral #1

10. FIELD AND POOL, OR WILDCAT  
 Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 SE, NE, Sec. 2-24S-4E., S.L.M.  
 (On H.E.S. No. 180)

12. COUNTY OR PARISH  
 Sevier

13. STATE  
 Utah

15. NO. OF ACRES IN LEASE 460

17. NO. OF ACRES ASSIGNED TO THIS WELL 160

20. ROTARY OR CABLE TOOLS  
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24. SIGNED W. Don Grigley TITLE Cons. Geol. DATE June 10, 1977

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY (ORIG. SGN.) F. W. GUYNN TITLE DISTRICT ENGINEER DATE AUG 25 1977

*Approval Notice - Division of Oil, Gas, & Mining - Utah*

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

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24. SIGNED W. Don Grigley TITLE Cons. Geol. DATE June 10, 1977

(This space for Federal or State office use)

PERMIT NO. 43-041-30015 APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

SURFACE USE AND OPERATIONS PLAN  
FOR  
J. HIRAM MOORE-CORRAL #1  
SE, NE, SEC. 2-24S-4E  
SEVIER COUNTY, UTAH

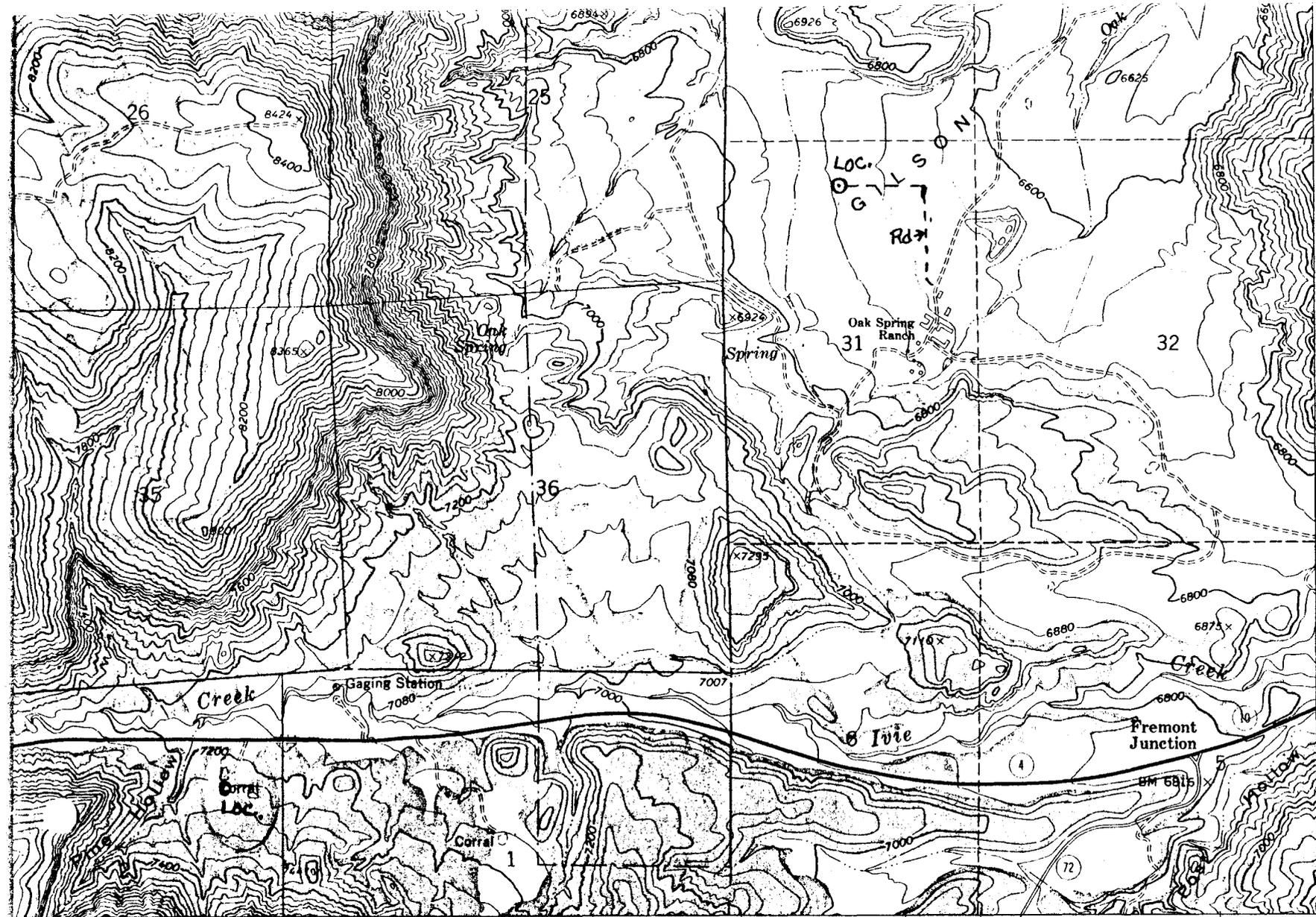
1. Location and Lease: A survey plat showing the exact location of the well is attached hereto. (See Plat No.1). The location is just south, about 660' of the I-70 freeway and behind a corral located in a cleared area of the forest land. It is on a prior homestead application and the survey has been made around this homestead application as shown on the plat. The oil & gas lease on which the well is located covers all of H.E.S.No 180, the SE $\frac{1}{4}$ , and the west half of the SW $\frac{1}{4}$  of Section 2. The attached Map No.1 shows the relation of the location to I-70, the corral, and other existing roads. The existing roads will be used to reach the location.
2. Access Road: No additional road will be required to get to the location. It is near the hiway, I-70, and should be readily accessible.
3. Location of Existing Wells: No other wells are nearby and none are planned or applied for at the present time. See attached map. The closest well is about 3 miles NE. of the location and is being drilled now.
4. Location of Production Equipment: A plan for the anticipated production equipment, if the well is successful, is submitted on Plat No.2. When production ceases this equipment will be removed and the land surface graded, levelled, and reseeded.
5. Water Supply: Water for rig use and drilling operations will be obtained from the nearby Ivie Creek. This is less than a  $\frac{1}{2}$  mile from the location. The water will be hauled to the rig by truck.
6. Road Material: No additional road material, gravel, or culverts will be required.
7. Waste Disposal: A reserve pit and burn pit will be constructed at the well site as shown on Plat No.3. All excess water, mud, and drill cuttings will be deposited into the reserve pit. Burnable material and garbage will be put into the burn pit which will be fenced with chicken wire to prevent spreading of debris by the wind. A toilet will be furnished for human waste.
8. Camp Facilities and Airstrip: No camp facilities other than two or three house trailers at the well site will be needed. The airstrip which is currently being used for the transporting of crews to the Johnson No.1 well in Section 31-23S-5E will also be used for the same purpose on this well. The airstrip is on private land.
9. Well Site Plan: A plan for the drilling equipment layout required for the drilling operations is submitted on Plat No. 3. The approximate dimensions of the drill site are shown. The site will be levelled for this equipment and the pits dug as shown. The pits will be unlined and will have 4-ft. banks made from the dozed material from the pits. A minimum of work will be required in the preparation of the site, since it is already cleared and fairly level. Some of the brush and cedar trees on the south side will have to be pushed back.

10. Restoration: After drilling operations have been completed and the equipment removed, the well site will be cleaned, levelled, and restored to normal. The pits will be covered and the area reseeded, if the well is not successful. Otherwise the site will be levelled and prepared for the placement of the production equipment. This work will be accomplished within 30 days after the drilling equipment has been removed. In the event there is a lot of fluid in the reserve pit, it will be necessary to allow this to evaporate some prior to folding in the pit. In this case the pit will be fenced before leaving the location.
11. Land Description: The proposed well site is in the forest area and is surrounded by cedar trees, pine trees, and juniper trees. Most of the site has been previously cleared by a prior livestock operation, which included corrals and buildings. There is a gentle slope to the north and some levelling and filling on the north side will be required. The trees on the south side will have to be pushed back to provide more room on the site area. An archeological search and inspection has been made.
12. Representative: The operator's representative at the well site will probably be an engineer working for J. Hiram Moore & Company. The road and location work will probably be accomplished by company equipment and hired personnel.
13. Certification:  
I hereby certify that I, or persons under my direct supervision have inspected the well site and access route; that I am familiar with the conditions which presently exist; that statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by J Hiram Moore and Company personnel and its contractors in conformity with this plan and terms and conditions under which it is approved.

14. Date: June 10

W. Don Quigley  
W. Don Quigley

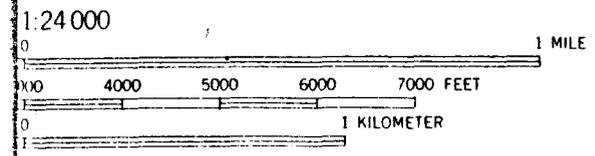
Note: It is anticipated that the work outlined herein will be accomplished in approximately 15 days.



4292  
4291  
T. 23 S.  
T. 24 S.  
4290000m.N.  
CASTLE DALE 40 MI  
EMERY 13 MI  
38°45'

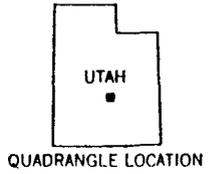
S. 1 PEAK) III NW 1:24,000 1:63 25' 1:64 R. 4 E. R. 5 E.

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1972  
FREMONT 30 MI. 467000m.E. 111°22'30"



ROAD CLASSIFICATION  
 Primary highway, all weather, Light-duty road, all weather,  
 hard surface ——— improved surface ———  
 Unimproved road, fair or dry weather ———

○ State Route

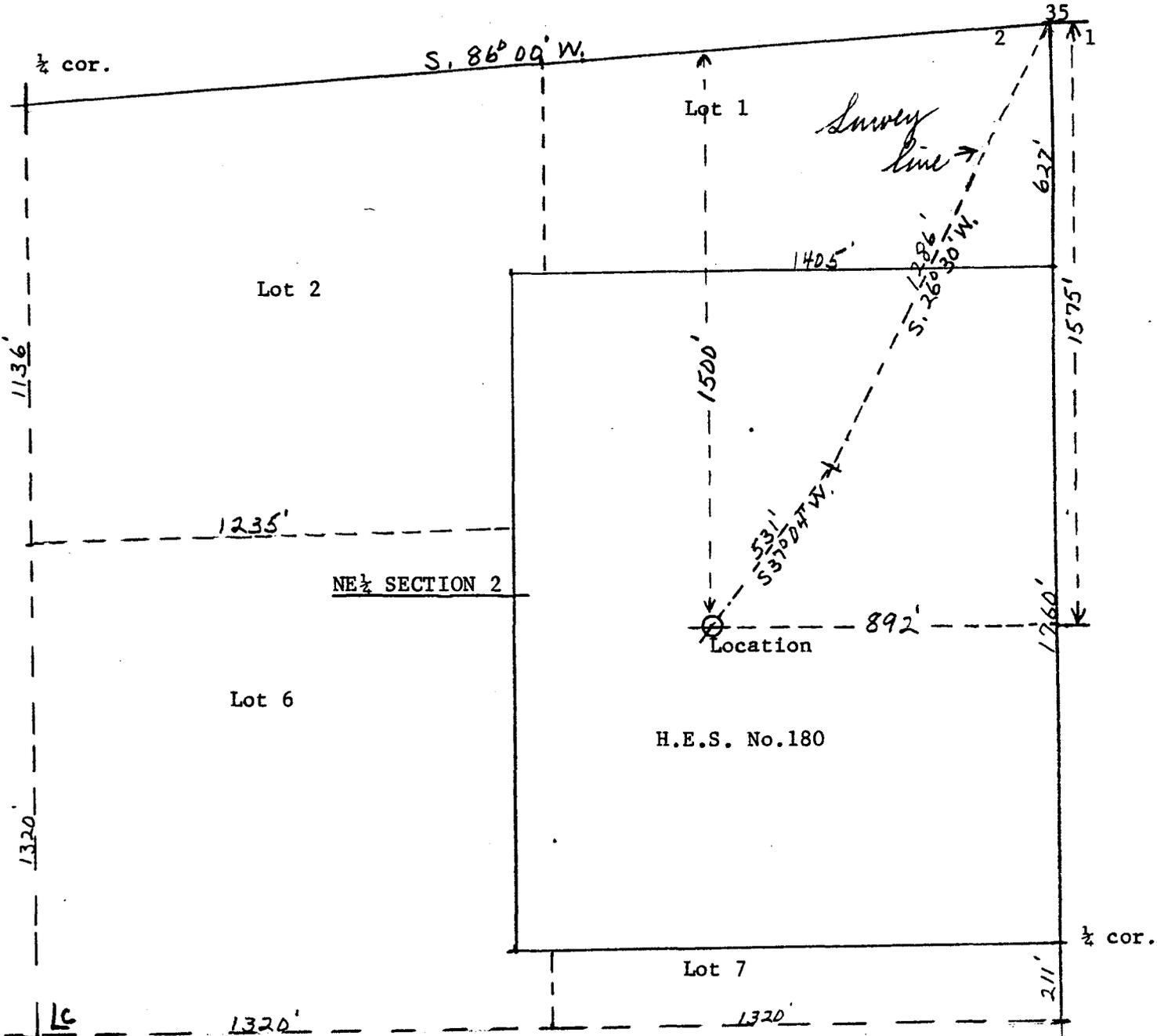


**OLD WOMAN PLATEAU, UTAH**

SW/4 ACORD LAKES 15' QUADRANGLE  
N3845—W11122.5/7.5

NATIONAL MAP ACCURACY STANDARDS  
FOR COLORADO 80225 OR WASHINGTON D. C. 20242

LOCATION PLAT FOR  
 J. HIRAM MOORE WELL  
 CORRAL #1  
 SE. NE. SEC. 2-24S-4E, S.L.M.  
 SEVIER COUNTY, UTAH  
 Elev.: 7261' grd.



Ref. pts. at 170' N.; 71' S.; & 134' W.

Scale: 1 in. = 400 ft.

Date: June 10, 1977

Surveyed by: W. Don Quigley

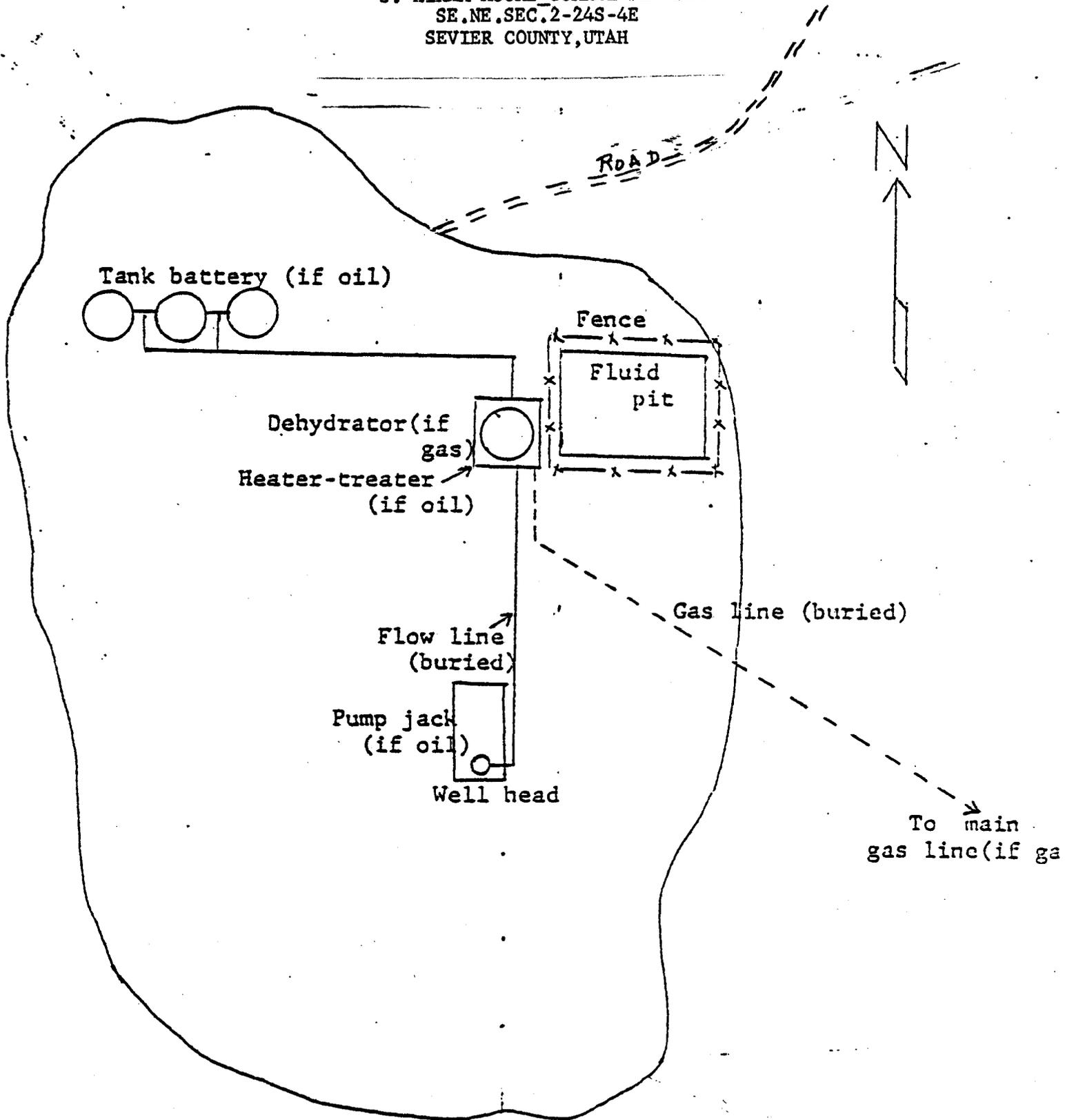
I, W. Don Quigley, do hereby certify that  
 this plat was plotted from notes of a field  
 survey made by me on May 12, 1977.

*W. Don Quigley*  
 W. Don Quigley

PLAT NO. 1

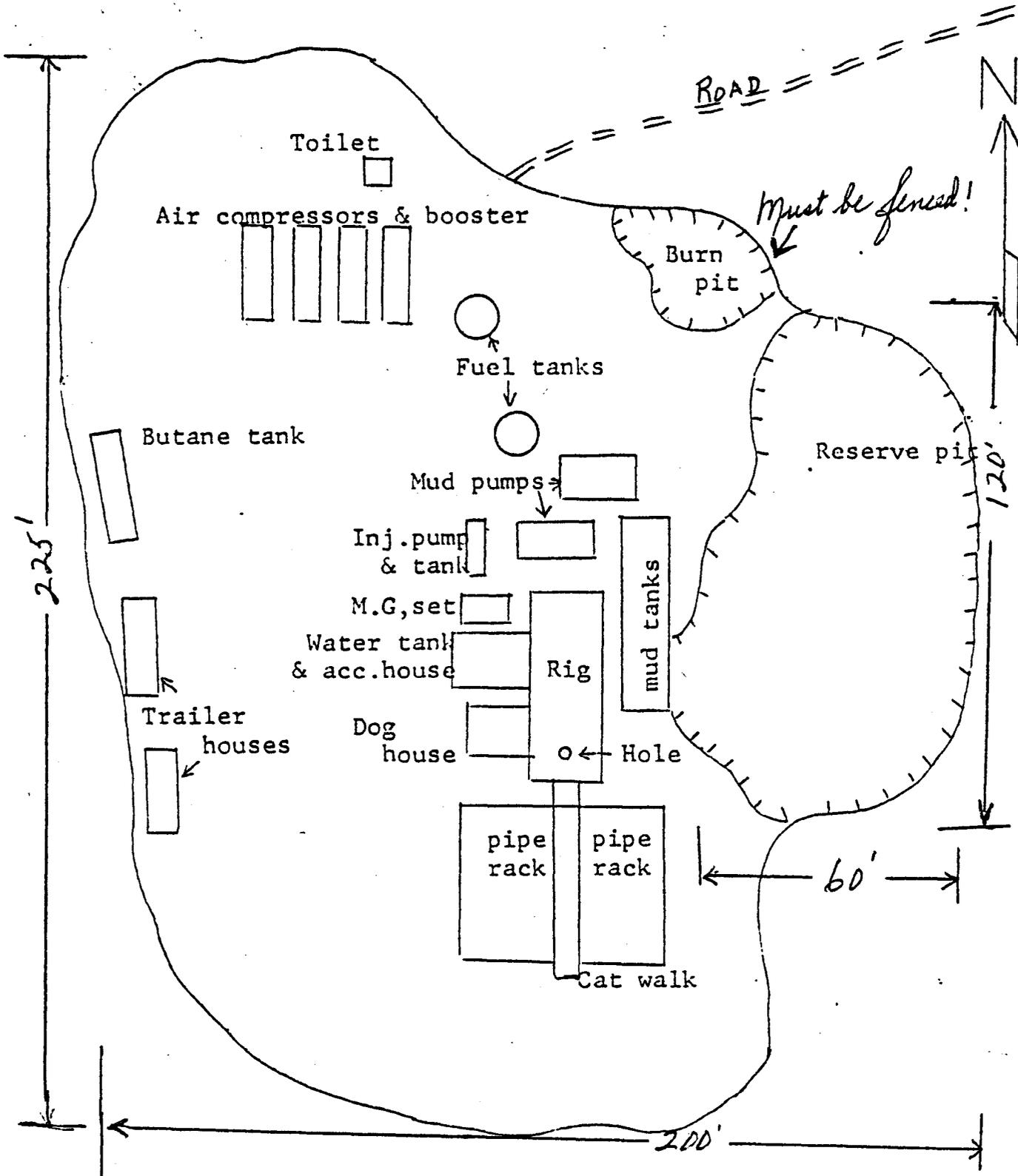
PLAN FOR PRODUCTION EQUIPMENT

J. HIRAM MOORE-CORRAL #1 WELL  
SE.NE.SEC.2-24S-4E  
SEVIER COUNTY,UTAH



LOCATION PLAN FOR

J. HIRAM MOORE-CORRAL #1 WELL  
SE.NE.SEC.2-24S-4E  
SEVIER COUNTY, UTAH



Scale: 1 in. = approx 35 ft.

WELL CONTROL EQUIPMENT FOR

J,HIRAM MOORE- CORRAL #1 WELL  
SEVIER COUNTY,UTAH

The following control equipment is planned for the above designated well: (See attached diagram).

1. Surface Casing:
  - A. Hole size for surface casing is 12 1/4"
  - B. Setting depth for surface casing is approx. 300 ft.
  - C. Casing specs. are: 8 5/8" D.D., J-55, 24,000#, 8 rd. thread, new or used.
  - D. Anticipated pressure at setting depth is approx. 20 lbs.
  - E. Casing will be run using three centralizers and a guide shoe, and will be cemented with 80 sks of cement with returns to the surface.
  - F. Top of the casing will be at ground level.
2. Casing Head:

Flange size: 10", A.P.I. Pressure rating: 2000# W.P., Series 600; Cameron, OCT, or equivalent; new or used; equipped w/two 2" ports with nipples and 2", 2000# W.P. ball or plug valves. Casing head and valves set above ground level.
3. Intermediate Casing:

None.
4. Blowout Preventors:
  - A. Double rams; hydraulic; one set of blind rams; one set of rams for 3 1/2" or 4" drill pipe; 10" flange; 2000# or greater W.P.; Series 900; equipped with mechanical wheels and rod for back-up; set on top of casing head flange and securely bolted down, and pressure tested for leaks up to 2000#p.s.i.
  - B. Rotating Head:

Shaffer, Grants or equivalent; set on top of blowout preventor and bolted securely; complete with kelly drive, pressure lubricator; 3 1/2" or 4" rubber for 2000# W.P.; need not have hydril assembly on bottom.
  - C. Fill and Kill Lines:

The fill and kill lines (2" tubing or heavy duty line pipe) are to be connected thru the 2" valves on the casing head.
5. Auxillary Equipment:

A float valve is to be used in the bottom drill collar at all times. A string float will also be used in the drill pipe and kept within 200'-300' of the surface.
6. Anticipated Pressures:

The shut-in pressures of the Dakota, Cedar Mountain, and Morrison formations at depths of 4000' to 5000' in the area have been measured at about 1000# to 2000# maximum.
7. Drilling fluids:

Air or fresh gel-mud will be used to drill the subject well. In case of excessive water and/or oil, it may be

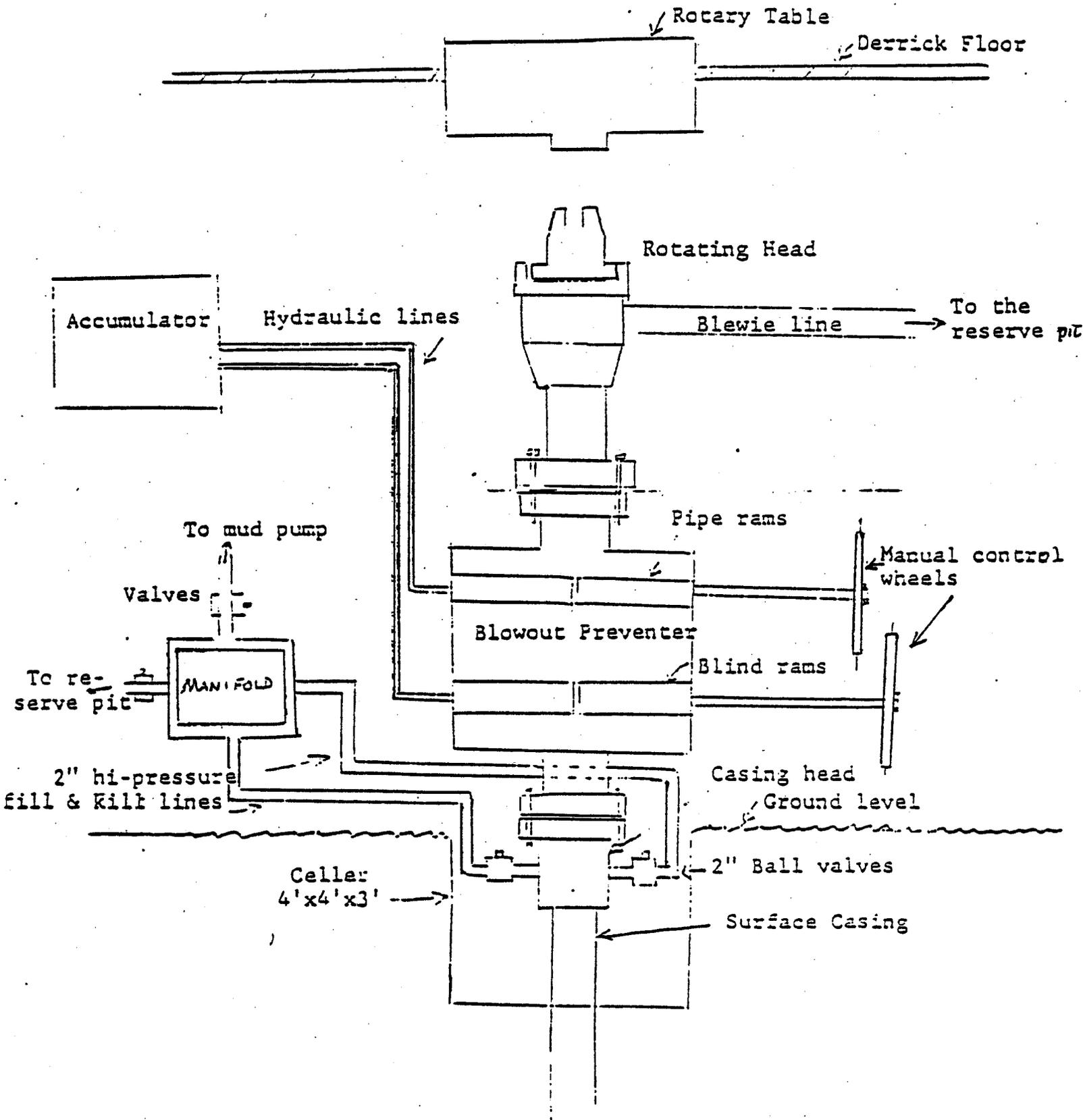
necessary to convert to mud. See prognosis for details.

8. Production Casing:

- A. Hole size for production casing: 7-7/8"
- B. Approx. setting depth: 5350'
- C. Casing specs.: 5½" O.D., 14.50#, J-55, new
- D. Casing will be set thru the pay zones and cemented with sufficient thixotropic or RFC cement to bring the cement top about 100 ft. above the top of the Ferron formation.
- E. The pay zones will be perforated, broken down, and fracture treated, if necessary. The required surface equipment will then be installed.

SCHEMATIC DIAGRAM  
OF

J. HIRAM MOORE-CORRAL #1 WELL  
SE. NE. SEC. 4-24S-4E  
SEVIER COUNTY, UTAH



STATE OF UTAH  
DIVISION OF OIL, GAS, AND MINING

\*\* FILE NOTATIONS \*\*

Date: June 15 -  
Operator: J. Hyrum Moore  
Well No: Corral Fed. #1  
Location: Sec. 2 T. 24 R. 4E County: Sevier

File Prepared  Entered on N.I.D.   
Card Indexed  Completion Sheet

API NO 44

CHECKED BY:

Administrative Assistant [Signature]  
Remarks:  
Petroleum Engineer [Signature]  
Remarks:  
Director [Signature]  
Remarks:

appears to be  
a legitimate topo.  
exception.

INCLUDE WITHIN APPROVAL LETTER:

Bond Required  Survey Plat Required   
Order No. [Signature]  Surface Casing Change   
to \_\_\_\_\_

Rule C-3(c), Topographic exception/company owns or controls acreage  
within a 660' radius of proposed site

O.K. Rule C-3  O.K. In \_\_\_\_\_ Unit

Other:

Letter Written/Approved

June 15, 1977

J. Hyrum Moore  
314 Gulf Building  
Midland, Texas 79701

Re: Well No. Corral Federal #1  
Sec. 2, T. 24 S, R. 4 E,  
Sevier County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PATRICK L. DRISCOLL - Chief Petroleum Engineer  
HOME: 582-7247  
OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-041-30015.

Very truly yours,

CLEON B. FEIGHT  
Director

Send copy of  
Well completion  
Report:

One to:

Raymond J. Madsen  
63 S. 4th E.  
SLC 84111

---

One to:

Garkane Power Assoc.  
56 E Center St.  
Richfield, UT 84701

**U. S. GEOLOGICAL SURVEY**

District Notified CONSERVATION DIVISION  
Mailed to D.E.

To: District Engineer, SIC

NID

Operator <u>I. Hyrum Moore</u>		Well <u>Corral #1 Fed</u>		Location <u>Sevier Co, Utah</u> <u>SENE Sec 2 T. 24S R. 4E</u>	
Lease No. <u>U16115</u>	Ground elev. <u>7261</u>	Objective <u>gas in</u> <u>Ferron, Dakota, Cedar</u>		Surface casing <u>8 5/8 to 300'</u>	Estimated T. D. <u>3500</u>
Formation	Possible resource	Estimated depth	Estimated thickness	Remarks *	
<u>Masuk Sh.</u>	<u>Fresh water</u>	<u>Surface</u>	<u>600</u>		
<u>Emerg SS.</u>	<u>Fresh water?</u>	<u>600</u>	<u>1300</u>		
<u>Blue Gate Sh.</u>		<u>cut out</u>	<u>by faulting?</u>		
<u>Ferron SS</u>	<u>gas</u>	<u>1550</u>	<u>675</u>	<u>coal - not commercial</u>	
<u>Tununk Sh</u>		<u>2225</u>	<u>575</u>		
<u>Dakota SS</u>	<u>gas</u>	<u>2800</u>	<u>130</u>		
<u>Cedar Mtn</u>	<u>gas</u>	<u>2930</u>	<u>420</u>		
<u>Morrison</u>	<u>gas?</u>	<u>3350</u>	<u>300</u>		

Competency of beds at proposed casing setting points: Faulting may make weakened zones, can't predict exact horizon!

Additional logs or samples needed: adequate

- \* Where applicable note:
1. Potential oil and gas productive zones
  2. Zones bearing fresh water
  3. Possible lost circulation zones
  4. Zones with abnormal pressure
  5. Zones with abnormal temperature
  6. Other minerals such as coal, oil shale, potash, etc.

Signed: [Signature]  
Geologist

Date: 7/11/77

State Oil & Gas

ATTACHMENT 2-A

SUMMARY OF ENVIRONMENTAL IMPACT EVALUATION EIA NO. 564  
DATE 6-30-77

OPERATOR J. HYRUM MOORE  
LEASE # U-16115  
WELL NO. CORRAL #1  
LOC. SE 1/4 NE SEC. 2  
T. 24S R. 4E  
COUNTY SEVIER STATE UT.  
FIELD W/C  
USGS W. DENNIS  
BLM Paul Stokinger  
REP: DON QUIGLY  
DIRT

- ENHANCES
- NO IMPACT
- MINOR IMPACT
- MAJOR IMPACT

	Construction				Pollution			Drilling Production			Transport Operations			Accidents		Others		
	Roads, bridges, airports	Transmission lines, pipelines	Dams & impoundments	Others (pump stations, compressor stations, etc.)	Burning, noise, junk disposal	Liquid effluent discharge	Subsurface disposal	Others (toxic gases, noxious gas, etc.)	Well drilling	Fluid removal (Prod. wells, facilities)	Secondary Recovery	Noise or obstruction of scenic views	Mineral processing (ext. facilities)	Others	Trucks		Pipelines	Others

Land Use	Forestry	✓	✓	✓	✓	✓	✓	✓						✓	✓		✓	✓	
	Grazing	✓	✓	✓		✓	✓	✓	✓					✓	✓		✓	✓	
	Wilderness	N/A																	
	Agriculture	N/A																	
	Residential-Commercial	N/A																	
	Mineral Extraction	N/A																	
	Recreation	✓	✓	✓		✓	✓	✓	✓	✓		✓	✓		✓	✓		✓	✓
	Scenic Views	✓	✓	✓		✓	✓	✓	✓	✓		✓	✓		✓	✓		✓	✓
	Parks, Reserves, Monuments	✓							✓										
	Historical Sites	✓	✓	✓		✓	✓	✓	✓	✓		✓	✓		✓	✓		✓	✓
	Unique Physical Features	N/A																	
	Flora & Fauna	Birds	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓	✓		✓	✓
Land Animals		✓	✓	✓		✓	✓	✓	✓		✓	✓		✓	✓		✓	✓	
Fish		N/A																	
Endangered Species		N/A				NONE KNOWN													
Trees, Grass, Etc.		✓	✓	✓		✓	✓	✓	✓			✓	✓		✓	✓		✓	✓
Phy. Charact.	Surface Water	✓	✓	✓		✓	✓	✓	✓		✓	✓		✓	✓		✓	✓	
	Underground Water	✓				✓	✓	✓	✓										
	Air Quality	✓	✓	✓		✓	✓	✓	✓					✓	✓		✓	✓	
	Erosion	✓	✓	✓		✓	✓	✓	✓					✓	✓		✓	✓	
	Other																		
Effect On Local Economy																			
Safety & Health	✓	✓	✓		✓	✓	✓	✓	✓		✓	✓		✓	✓		✓	✓	
Others																			

Loc moved 60' NE  
 Orig. file cc: Forest Service  
 Reg - [unclear]  
 State Oil [unclear]

LEASE U-16115 DATE 6-30-77WELL NO. CORRAL #1LOCATION: SE ¼ NE ¼, SEC. 2, T. 24S, R. 4E,FIELD W/C COUNTY SEVIER STATE UTAHENVIRONMENTAL IMPACT ANALYSIS - ATTACHMENT 2-BI. PROPOSED ACTION

W. Hyrum Moore PROPOSES TO DRILL AN OIL AND  
 (COMPANY)  
 GAS TEST WELL WITH ROTARY TOOLS TO ABOUT 3500 FT. TD. 2) TO CONSTRUCT A  
 DRILL PAD 140 FT. X 225 FT. AND A RESERVE PIT 60 FT. X 120 FT.  
 3) TO CONSTRUCT N/A FT. WIDE X \_\_\_\_\_ MILES ACCESS ROAD AND UPGRADE  
 FT. WIDE X \_\_\_\_\_ MILES ACCESS ROAD FROM AN EXISTING AND IMPROVED ROAD, TO  
 GAS  OIL PRODUCTION FACILITIES ON THE DISTURBED AREA FOR THE DRILL PAD  
 AND  TRUCK  TRANSPORT THE PRODUCTION THROUGH A PIPELINE TO A TIE-IN IN  
 SECTION \_\_\_\_\_, T. \_\_\_\_\_, R. \_\_\_\_\_

2. LOCATION AND NATURAL SETTING (EXISTING ENVIRONMENTAL SITUATION).

(1) TOPOGRAPHY:  ROLLING HILLS  DISSECTED TOPOGRAPHY  DESERT  
 OR PLAINS  STEEP CANYON SIDES  NARROW CANYON FLOORS  DEEP DRAINAGE  
 IN AREA  SURFACE WATER THIS LOCATION IS IN A CANYON  
APPROX 300 YARDS FROM INTERSTATE 70

(2) VEGETATION:  SAGEBRUSH  PINON-JUNIPER  PINE/FIR  FARMLAND  
 (CULTIVATED)  NATIVE GRASSES  OTHER \_\_\_\_\_

(3) WILDLIFE:  DEER  ANTELOPE  ELK  BEAR  SMALL  
MAMMAL  BIRDS  ENDANGERED SPECIES  OTHER \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4) LAND USE:  RECREATION  LIVESTOCK GRAZING  AGRICULTURE  
 MINING  INDUSTRIAL  RESIDENTIAL  OIL & GAS OPERATIONS

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

REF: BLM UMBRELLA EAR  
USFS EAR  
OTHER ENVIRONMENTAL ANALYSIS

3. Effects on Environment by Proposed Action (potential impact)

1) EXHAUST EMISSIONS FROM THE DRILLING RIG POWER UNITS AND SUPPORT TRAFFIC ENGINES WOULD ADD MINOR POLLUTION TO THE ATMOSPHERE IN THE LOCAL VICINITY.

2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE DISTURBANCE AND SUPPORT TRAFFIC USE,

3) MINOR VISUAL IMPACTS FOR A SHORT TERM DUE TO OPERATIONAL EQUIPMENT AND SURFACE DISTURBANCE.

4) TEMPORARY DISTURBANCE OF WILDLIFE AND LIVESTOCK,

5) MINOR DISTRACTION FROM AESTHETICS FOR SHORT TERM,

6)  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. Alternatives to the Proposed Action

1) NOT APPROVING THE PROPOSED PERMIT -- THE OIL AND GAS LEASE GRANTS THE LESSEE EXCLUSIVE RIGHT TO DRILL FOR, MINE, EXTRACT, REMOVE AND DISPOSE OF ALL OIL AND GAS DEPOSITS.

2) DENY THE PROPOSED PERMIT AND SUGGEST AN ALTERNATE LOCATION TO MINIMIZE ENVIRONMENTAL IMPACTS.  NO ALTERNATE LOCATION ON THIS LEASE WOULD JUSTIFY THIS ACTION.

3) LOCATION WAS MOVED 60' N.E TO AVOID  LARGE SIDEHILL CUTS  NATURAL DRAINAGE  OTHER TREES AND SOME OLD Abd. Buildings

4)

5. Adverse Environmental Effects Which Cannot Be Avoided

1) MINOR AIR POLLUTION DUE TO EXHAUST EMISSIONS FROM RIG ENGINES AND SUPPORT TRAFFIC ENGINES.

2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE DISTURBANCE AND SUPPORT TRAFFIC USE.

3) MINOR AND TEMPORARY DISTURBANCE OF WILDLIFE.

4) TEMPORARY DISTURBANCE OF LIVESTOCK.

5) MINOR AND SHORT-TERM VISUAL IMPACTS.

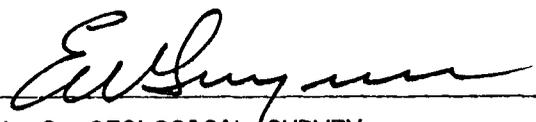
6)

6. DETERMINATION:

(THIS REQUESTED ACTION (~~IS~~) (DOES NOT) CONSTITUTE A MAJOR FEDERAL ACTION SIGNIFICANTLY AFFECTING THE ENVIRONMENT IN THE SENSE OF NEPA, SECTION 102(2) (C).

DATE INSPECTED 6-30-77

INSPECTOR 

  
U. S. GEOLOGICAL SURVEY  
CONSERVATION DIVISION - OIL & GAS OPERATIONS  
SALT LAKE CITY DISTRICT

SEARCHED \_\_\_\_\_  
INDEXED \_\_\_\_\_  
SERIALIZED \_\_\_\_\_  
FILED \_\_\_\_\_  
OCT 10 1977  
FBI - DENVER  
Kathy Wells

October 7, 1977

Memo To File:

Re: J. Hyrum Moore  
#1 Corral Federal, SE NE,  
Sec. 2, T. 24S, R. 4E,  
Sevier County, Utah

This office was informed October 6, 1977 by the above operator that the referenced well would spud today. The drilling contractor is Willard Pease, and Rig #2 is on location.

  
PATRICK L. DRISCOLL  
CHIEF PETROLEUM ENGINEER

PLD/ko

CIRCULATE TO:

DIRECTOR-----  
PETROLEUM ENGINEER-----  
MINE COORDINATOR-----  
ADMINISTRATIVE ASSISTANT-----  
ALL-----  
RETURN TO Kathy Wells  
FOR FILING

October 17, 1977

Memo To File:

Re: J. Hiram Moore  
#1 Corral Federal  
Sec. 2, T. 24S, R. 4E, SE NE  
Sevier County, Utah

Verbal permission was given to Mr. Jim Price to plug and abandon the above well. The pertinent data is as follows:

Total Depth: 4100'  
Surface Casing: 10 3/4 @ 406'

Plugs:

Plug #1	Across Dakota - 3875'-3700'
Plug #2	Across Ferron - 2250'-2100'
Plug #3	420'- 320'
Plug #4	25'-Surface

A regulation dry-hole marker will be set, and the location will be cleaned and reseeded.

  
PATRICK L. DRISCOLL  
CHIEF PETROLEUM ENGINEER

PLD/ko

Contractor Pease Drlg. Co. Top Choke 1"  
 Rig No. 2 Bottom Choke 9/16"  
 Spot SE-NE Size Hole 8 3/4"  
 Sec. 2 Size Rat Hole --  
 Twp. 24 S Size & Wt. D. P. 4" 14.00  
 Rng. 4 E Size Wt. Pipe --  
 Field Wildcat I. D. of D. C. 2 1/4"  
 County Sevier Length of D. C. 145'  
 State Utah Total Depth 4100'  
 Elevation 1270' "K.B." Interval Tested 3897-3920'  
 Formation Dakota Type of Test Conventional  
Straddle

Flow No. 1 80 Min.  
 Shut-in No. 1 90 Min.  
 Flow No. 2 -- Min.  
 Shut-in No. 2 -- Min.  
 Flow No. 3 -- Min.  
 Shut-in No. 3 -- Min.  
 Bottom Hole Temp. 126° F  
 Mud Weight 9.3  
 Gravity --  
 Viscosity 60

Tool opened @ 8:10 AM.

**Inside Recorder**

PRD Make Kuster K-3  
 No. 13099 Cap. 6250 @ 3910'

	Press	Corrected.
Initial Hydrostatic	A	1906
Final Hydrostatic	K	1875
Initial Flow	B	765
Final Initial Flow	C	1243
Initial Shut-in	D	1366
Second Initial Flow	E	--
Second Final Flow	F	--
Second Shut-in	G	--
Third Initial Flow	H	--
Third Final Flow	I	--
Third Shut-in	J	--

Lynes Dist.: Casper, Wy.

Our Tester: Rick Hanson

Witnessed By: James Price

Did Well Flow - Gas No Oil No Water No

RECOVERY IN PIPE: 1460' Total fluid  
240' Muddy water = 2.59 bbl.  
1220' Water = 12.32 bbl.

REMARKS:

Flow - Tool opened and lost mud in annulus. Reset tool and had no blow for 20 minutes. Began blowing and increased to bottom of bucket in 25 minutes. Decreased to a 2" underwater blow at 60 minutes, then increased to bottom of bucket at end of flow period.



Operator J. Hiram Moore  
 Well Name and No. Corral-Federal #1  
 Ticket No. 6920  
 Date 10-14-77  
 No. Final Copies 8  
 DST No. 1

# LYNES, INC.

Operator J. Hiram Moore Lease & No. Corral-Federal #1 DST No. 1

Recorder #13099 @ 3910'

## FIRST SHUT IN PRESSURE:

TIME(MIN) PHI	(T"PHI) /PHI	PSIG
0.0	0.0000	1243
9.0	9.8889	1347
18.0	5.4444	1357
27.0	3.9630	1361
36.0	3.2222	1363
45.0	2.7778	1363
54.0	2.4815	1365
63.0	2.2698	1365
72.0	2.1111	1365
81.0	1.9877	1365
90.0	1.8889	1366

EXTRAPLN OF FIRST SHUT IN : 1370.1 M : 14.9

Extrapolations of reservoir pressures should be used as indicators only.

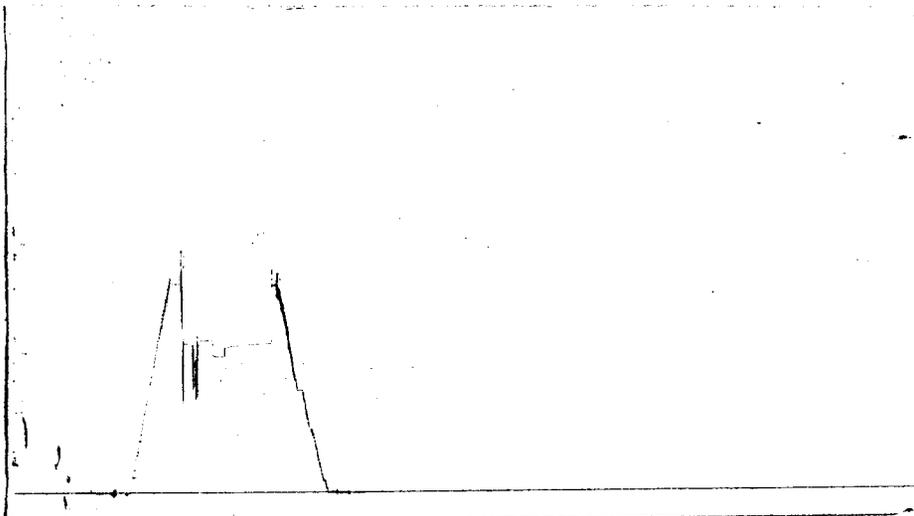


# LYNES, INC.

Operator J. Hiram Moore

Lease & No. Corral-Federal #1

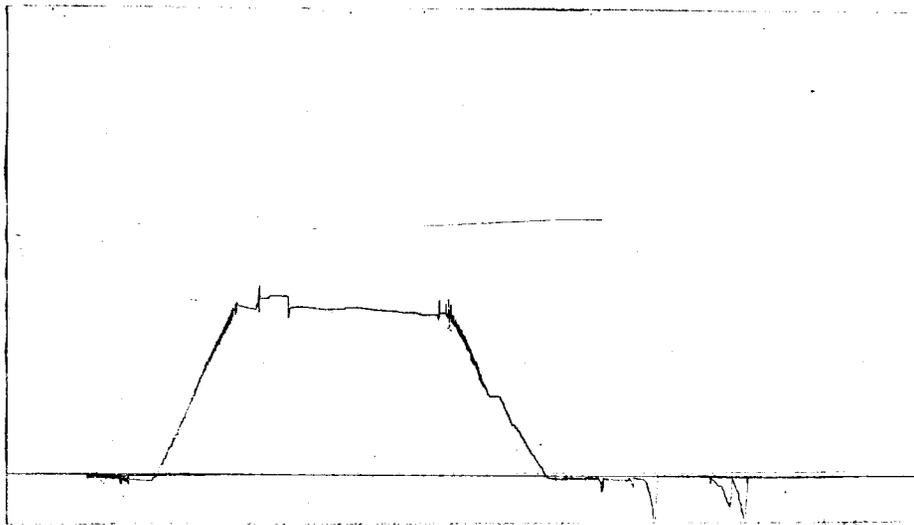
DST No. 1



Inside Recorder  
Kuster K-3

PRD Make Kuster K-3  
No. 7097 Cap. 4000 @ 3905'

	Press	Corrected
Initial Hydrostatic	A	1900
Final Hydrostatic	K	1870
Initial Flow	B	763
Final Initial Flow	C	1207
Initial Shut-in	D	1323
Second Initial Flow	E	--
Second Final Flow	F	--
Second Shut-in	G	--
Third Initial Flow	H	--
Third Final Flow	I	--
Third Shut-in	J	--
Pressure Below Bottom Packer Bled To		



Kuster K-3

PRD Make Kuster K-3  
No. 2477 Cap. 5200 @ 3930'

	Press	Corrected
Initial Hydrostatic	A	
Final Hydrostatic	K	
Initial Flow	B	
Final Initial Flow	C	
Initial Shut-in	D	
Second Initial Flow	E	
Second Final Flow	F	
Second Shut-in	G	
Third Initial Flow	H	
Third Final Flow	I	
Third Shut-in	J	
Pressure Below Bottom Packer Bled To		1785

RECEIVED  
OCT 21 1977  
Lynnes, Inc.

# LYNES, INC.

## Fluid Sample Report

Date 10-14-77 Ticket No. 6920  
Company J. Hiram Moore  
Well Name & No. Corral-Federal #1 DST No. 1  
County Sevier State Utah  
Sampler No. -- Test Interval 3897-3920'

Pressure in Sampler 0 PSIG BHT 126 °F

Total Volume of Sampler: 2150 cc.

Total Volume of Sample: 1500 cc.

Oil: None cc.

Water: 1500 cc.

Mud: None cc.

Gas: None cu. ft.

Other: None

R.W. Sample .40 @ 64° F = 15,500 ppm. chl.

### Resistivity

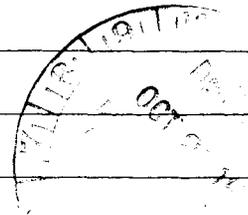
Make Up Water \_\_\_\_\_ @ \_\_\_\_\_ of Chloride Content \_\_\_\_\_ ppm.

Mud Pit Sample \_\_\_\_\_ @ \_\_\_\_\_ of Chloride Content \_\_\_\_\_ ppm.

Gas/Oil Ratio \_\_\_\_\_ Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F

Where was sample drained On location.

Remarks: \_\_\_\_\_



# LYNES, INC.

## Distribution of Final Reports

Operator J. Hiram Moore Well Name and No. Corral-Federal #1

Original: J. Hiram Moore, 314 Gulf Bldg., Midland, Texas 79701.

1 copy: J. Hiram Moore, 414 Sunfish, Austin, Texas 78846.

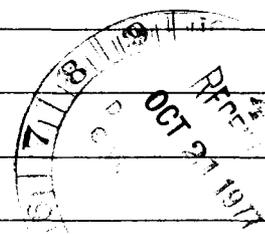
1 copy: M.J. Herring, 902 Midland Savings Bldg., Denver, Colorado 80202.

1 copy: J.R. Boshard, 918 Denver Center Bldg., Denver, Colorado 80203.

1 copy: Cordillira Corp., 2334 East Third Ave., Denver, Colorado 80206.

2 copies: U.S.G.S., 8426 Federal Bldg., 125 So. State St., Salt Lake City, Utah  
84138. Attn: E. Guynn.

1 copy: Utah Oil, Gas and Mining Comm., 1588 W. North Temple, Salt Lake City,  
Utah 84116.



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate\*  
(Other instructions on re-verse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Fed. - U - 16115

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

-----

7. UNIT AGREEMENT NAME

-----

8. FARM OR LEASE NAME

Corral Federal

9. WELL NO.

#1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec.2 T24S R4E S.L.M.

12. COUNTY OR PARISH

Sevier

13. STATE

Utah

1. OIL WELL  GAS WELL  OTHER  P & A

2. NAME OF OPERATOR  
J. Hiram Moore

3. ADDRESS OF OPERATOR  
314 Gulf Bldg., Midland, Texas 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface 1458 F.N.L. 850 F.E.L.  
Sec.2 T24S R4E S.L.M.  
Sevier County, Utah

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
G.L. 7261 K.B. 7270

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

- (1) Plugged & abandoned well 10-14-77
- (2) No commercial hydrocarbons
- (3) Plugs at 3875-3700 (150') - sks 2250-2100 (150') - sks  
410-310 (100') - sks 10 sks @ surf w/ reg. marker, capped
- (4) 10 3/4" csg. set a 406' cement circulated to surface. (left in hole)
- (5) Will fill pits after they are dried up. Surface will be restored and seeded after pits are filled.
- (6) Will notify Geological Survey when location is ready for inspection.
- (7) T. D. 4100 Driller 4076 Logger

APPROVED BY THE DIVISION OF  
OIL, GAS, AND MINING

DATE: Oct. 25, 1977

BY: P. H. Ansell



18. I hereby certify that the foregoing is true and correct

SIGNED Murray J. Herring

TITLE Cons. Insp.

DATE Oct. 20, 1977

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_



# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29:** "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. **Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES		TOP		BOTTOM		DESCRIPTION, CONTENTS, ETC.		38. GEOLOGIC MARKERS				
FORMATION	TOP	BOTTOM	MEAS. DEPTH	NAME	MEAS. DEPTH	TOP	TRUE VERT. DEPTH					
D.S.T. #1	3897	3920				Open 80 min., Rec. 1460' fluid		Emery	Surface	surface		
240' Muddy	water	1220'			Wtr (15500 PPM Cl.)			Bluegate Sh.		1075		
Mist drilled	to	2923			Mudded up @ 2923			Ferrom Sd.		2373		
Drilled to T.D.								Tunuk Sh.		3070		
								Dakota Sd.		3893		
								Morrison		4010		
								T.D.		4100		



W E L L   R E P O R T

FOR

J. HIRAM MOORE

W E L L

J. HIRAM MOORE

N O .   1   C O R R A L - F E D E R A L

1458' F.N.L., 850' F.E.L.

Section 2

T24S, R4E, S.L.M.

Sevier County, Utah

Prepared by:

James K. Price  
Geologist  
Lakewood, Colorado

C O N T E N T S

	Page
Well Summary . . . . .	1
Formation Tops and Datums. . . . .	2
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Bit Record . . . . .	4
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Drillstem Test . . . . .	4
Plugs. . . . .	5
Sample Description . . . . .	5-8

OCT 27 1977

W E L L S U M M A R Y

OPERATOR: J. Hiram Moore

CONTRACTOR: Willard Pease Drilling Company, Rig No. 2  
Russell Morris, Toolpusher

WELL NAME: No. 1 Corral-Federal

LOCATION: 1458' fnl, 850' fel, Section 2,  
Township 24 South, Range 4 East,  
Sevier County, Utah

ELEVATION: G.L. 7261' K.B. 7270'

OBJECTIVE: Ferron sandstone, Dakota sandstone and upper  
Cedar Mountain formation

TOTAL DEPTH: 4076' Logger 4100' Driller

SPUD: September 25, 1977

COMPLETED: October 14, 1977

TYPE COMPLETION: D & A

HOLE SIZE: 14-3/4" to 326'  
13-3/4" from 326' to 417'  
8-3/4" from 417' to 4100'

CASING: Ran 10 joints of 10-3/4" plus one 16" landing  
joint. Set at 407' K.B. with 225 sacks Class  
G cement, 3% CaCl. Plug down at 8:00 a.m.,  
September 27, 1977. Cement would not set.  
Recemented September 28th. Drilled out,  
2:45 p.m., September 29, 1977.

CORES: None

DRILLSTEM TESTS: 3897-3920' (Upper Dakota sandstones)

MUD: Banks Mud Sale, Don Ackers  
Grand Junction, Colorado

ELECTRIC LOGS: Schlumberger  
Dual Induction-Laterolog  
F.R. 4070 L.R. 406  
Compensated Neutron-Formation Density Log  
F.R. 4075 L.R. 407

WELLSITE GEOLOGIST: James K. Price, Lakewood, Colorado

WELL REPORT  
NO. 1 CORRAL-FEDERAL

F O R M A T I O N T O P S ( L O G S )

<u>FORMATION</u>	<u>DEPTH</u>	<u>ELEVATION</u>	<u>THICKNESS</u>
Emery sandstone	Surface Csg.		
Bluegate shale	1075'	+6195	1298'
Ferron sandstone	2373'	+4897	697'
Tununk shale	3070'	+4200	823'
Dakota sandstone	3893'	+3377	117'
Cedar Mountain	4010'	+3260	

T O T A L D E P T H (logger) 4076' (driller) 4100'

C H R O N O L O G I C A L H I S T O R Y

<u>Date</u>	<u>Depth (8:00 a.m.)</u>	<u>Days Drilled</u>	<u>Comments</u>
9/25/77		1	Spud - Lost Circulation at 291'.
9/26/77	326'	2	Drilling.
9/27/77	417'	3	T.D. @ 417'. Cemented. Plug down @ 8:00 A.M.
9/28/77	417'	4	Could not pressure up. Ran additional cement.
9/29/77	417'	5	Cleaned hole. Drilled out @ 2:45 P.M. Hole wet. Drilling with mist.
9/30/77	806'	6	Tripped for bit No. 4 @ 669'. Frozen air-head at 806'.
10/1/77	1870'	7	Drilling with mist.
10/2/77	2577'	8	Tripping for Bit #5. Replace airhead. T/FERRON @ 2373'. Unloading water on connections.

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CHRONOLOGICAL HISTORY (Continued)

10/3/77	2892'	9	Drilling with mist. Converted to mud @ 2923'.
10/4/77	2923'	10	Tripping for Bit #6, Bit #5 plugged. Lost circulation @ 2953'.
10/5/77	3013'	11	Hanging in hole with lost circulation. Mixed mud returns at 7:30 P.M. T/TUNUNK @ 3070'. Tripped for Bit #7 @ 3073'.
10/6/77	3104'	12	Drilling.
10/7/77	3268'	13	Drilling. Mud charac- teristics: Weight: 8.8, Visc: 57, W.L.: 6, PH: 9, LCM: 12%. Lost circula- tion @ 3332'.
10/8/77	3405'	14	Drilling.
10/9/77	3622'	15	Drilling.
10/10/77	3780'	16	Drilling.
10/11/77	3906'	17	Drilling. T/DAKOTA @ 3893'. Circulate for samples @ 3910'. Lost circulation @ 3943'.
10/12/77	3955'	18	Mixing mud and lost circulation material.
10/13/77	4100' T.D.	19	Circulating for DST #1.
10/14/77	4100' T.D.	20	On bottom with DST #1. Permission to plug.

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B I T R E C O R D

<u>BIT NO.</u>	<u>MAKE</u>	<u>SIZE</u>	<u>TYPE</u>	<u>DEPTH OUT</u>	<u>FOOTAGE</u>	<u>HOURS RUN</u>
1		14-3/4	Rerun	326	326	14-1/4
2	Reed	13-3/4	Rerun	417	91	2-1/2
3	Hughes	8-3/4	OWC	669	252	10-1/2
4	Reed	8-3/4	FP53	2577	1744	42-1/2
5	Reed	8-3/4	FP53J	2923	346	11-3/4
6	Hughes	8-3/4	OWV	3073	150	6-3/4
7	Reed	8-3/4	FP53J	4100	1027	131-1/2

H O L E D E V I A T I O N

2° @ 413'	1-1/2° @ 2000'
3° @ 669'	1-3/4° @ 3073'
2½° @ 1012'	6-1/4° @ 4100'

D R I L L S T E M T E S T S

DST No. 1, 3897'-3920' (Straddle)

Open tool. Tool slid 2'; packers reset, no blow for 20 min. Blow began and went off the bottom quickly. Blow fluctuated and was off bottom at the end of the 80 minute open period. Tool was shut-in for 90 minutes.

Pipe Recovery: 240' MCW  
 1220' Water

Sample Recovery: 1500 cc. Water ( $R_w = .48$  @ 64°F,  
 15,500 ppm.)

Pressures:

Initial Hydrostatic	1892
Initial Flow	773-1240
Initial Shut-in	1370
Final Flow	None
Final Shut-in	None
Final Hydrostatic	1840

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DRILLSTEM TESTS (Continued)

Bottomhole Pressure: 126<sup>o</sup>F

P L U G S

Telephone approval to plug from Mr. E. W. Guynn, U.S.G.S., Salt Lake City, Utah, and Mr. Pat Driscoll, Utah Division of Oil and Gas Conservation, Salt Lake City, Utah, October 14, 1977.

Plug No. 1	3875-3725'	T/DAKOTA SANDSTONE
Plug No. 2	2250-2100'	T/FERRON SANDSTONE
Plug No. 3	420-320'	B/SURFACE CASING
Plug No. 4	10 sacks @ T/surface casing with regulation marker.	

S A M P L E D E S C R I P T I O N

670-700	SANDSTONE, very fine grained to silt size, medium to light grey, carbonaceous, tight; SHALE, trace, medium to dark grey, carbonaceous, silty.
700-850	SANDSTONE, as above.
850-1120	SANDSTONE/SILTSTONE, as above.
1120-1210	SILTSTONE, dark grey, very argillaceous.
1210-1300	SANDSTONE, very fine grained to silt size, as above.
1300-1360	SANDSTONE/SILTSTONE, as above, medium to dark grey, increasingly argillaceous.
1360-1420	SILTSTONE, medium to dark grey, argillaceous, tight.
1420-1450	SHALE, medium grey, soft, silty.
1450-1540	SHALE, medium to dark grey, soft, slightly silty.
1540-1570	SHALE, dark grey, soft, carbonaceous fragments.
1570-1870	SHALE, as above, dark grey, soft, carbonaceous, bentonitic.
1870-2050	SHALE, medium to dark grey, fairly soft, some moderately hard and silty.

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SAMPLE DESCRIPTION (Continued)

2050-2230 SHALE, as above with some Inoceramus fragments.

2230-2260 N.S.

2260-2400 SHALE, as above

2400-2420 SANDSTONE, white, fine to medium grained, mostly individual grains, some clusters, no shows. (increasing in water, requires approximately 325 PSI to unload hole on connections) (FERRON SANDSTONE); SHALE, as above.

2420-2440 SANDSTONE, white, poorly sorted, fine to coarse grained, mostly loose sand grains.

2440-2460 SANDSTONE, white to light grey, fine with some medium grained sand, some loose grains, mostly tight clusters with carbonaceous fragments. Most grains are frosted.

2460-2480 Generally poor sample. Some SANDSTONE, as above; SHALE, very dark grey, heavily carbonaceous.

2480-2500 SANDSTONE, white, loose fine to medium sand grains; SHALE, as above; COAL, trace.

2500-2540 SANDSTONE, as above; SHALE and COAL, as above, trace.

2540-2560 SANDSTONE, fine grained, loose sand; COAL and SHALE, as above, trace.

2560-2580 Sample, as above.  
(SAMPLES FROM 2580-2600' THROUGH 2890-2900' ARE HEAVILY CONTAMINATED WITH SURFACE SAND BECAUSE OF WASHOUT IN FRONT OF BLEWIE LINE. DESCRIBED LITHOLOGY THROUGH THIS INTERVAL, THEREFORE, MAY NOT BE TOTALLY REPRESENTATIVE.)

2580-2600 SHALE, medium grey, slightly waxy texture.

2600-2680 SHALE, as above; SANDSTONE, as above.

2680-2700 SHALE, as above; SHALE, very dark grey, carbonaceous.

2700-2720 SHALE, very dark grey, carbonaceous, slightly calcareous; SHALE, light to medium grey, waxy, as above.

2720-2740 SANDSTONE, fine to very fine grained, white, some fair porosity, some tight; SHALES, as above.

SAMPLE DESCRIPTION (Continued)

2740-2900 SHALE, as above; COAL, trace, lignitic (?).

2900-2920 SANDSTONE, fine loose grains; much SHALE, light to medium grey, as above; trace COAL, as above.  
(FROM 2920-3050' NO SAMPLES - DRILLED WITHOUT CIRCULATION)

3030-3050 SHALE, light to medium grey, as above; SANDSTONE, fine loose sand, as above, decreasing.

3050-3073 SHALE, medium to light grey, soft, bentonitic(?).

3073-3130 SHALE, medium to dark grey, soft.

3130-3250 SHALE, as above, trace SILTSTONE, white, argillaceous, slightly carbonaceous, tight.

3250-3410 SHALE, as above; SILTSTONE, as above, slightly increasing, thin interbeds with medium to dark grey SHALE.  
  
(SAMPLES 3410-3450' MISSING)

3450-3490 SHALE and SILTSTONE, as above.

3490-3510 SHALE, as above; SILTSTONE, trace, as above, decreasing.

3510-3800 SHALE, as above.

3800-3810 SHALE, as above, with trace SILTSTONE inter laminations, as above.

3810-3820 SHALE, as above.

3820-3880 SHALE, dark grey, as above, trace of light grey CLAYSTONE; SILTSTONE, as above.

3880-3890 SHALE, as above; trace SANDSTONE, fine grained mottled grey, "salt and pepper".

3890-3900 SHALE, as above.

3900-3910 SANDSTONE, fine to medium grained, carbonaceous, dense, tight (DAKOTA SANDSTONE, N.S.); SHALE, as above.

3910-3911 SANDSTONE, fine and medium grained mixed, some grey, argillaceous, mostly tight, some with slight porosity; SHALE, as above.  
  
(CIRCULATED 1 HOUR, 3 SAMPLES @ 20 MINUTE INTERVALS)

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SAMPLE DESCRIPTION (Continued)

3911-3940 SANDSTONE, as above, no shows.

3940-3950 No Sample, Lost Circulation.

3950-3960 SHALE, dark grey, as above; CLAYSTONE, light grey, as above; trace SANDSTONE, as above. (Proportions questionable because of lost circulation and slow penetration rate)

3960-3970 Sample, as above, SANDSTONE, increasing.

3970-3980 SANDSTONE, white, fine to very fine grained, tight, no shows; SHALE, as above.

3980-3990 SANDSTONE, as above, with some medium grained, some possible porosity.

3990-4000 SANDSTONE, as above.

4000-4010 SANDSTONE, as above; SHALE, medium to dark grey.

4010-4030 SANDSTONE, fine to medium grain, some with good porosity (medium sand, N.S.); SHALE, dark grey, some coaly.

4030-4060 SANDSTONE, increasingly fine grained, tight, no shows; SHALE, as above.

4060-4070 SANDSTONE, very fine grained to fine grained, quartzitic, very dense; CLAYSTONE, grey with slight green and blue caste; SHALE, as above.

4070-4100 MIXED SAMPLE, CLAYSTONE, as above; SANDSTONE, fine to silt size, mostly dense and tight.

4100 Circulated 1 hour, 2 samples  
Sample, as above.